



COLORADO SPRINGS,
COLORADO

FEBRUARY 1989

PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.
P.O. Box 16521
Colorado Springs, CO 80935

FIRST CLASS MAIL

NEW MEETING TIME
7:00 P.M.



Ø BEAT



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* denotes the first year of a two-year term.

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The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at the Hewlett-Packard facility, at the intersection of Lexington and Union, at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Keith Goobie NYØT, 5335 Coneflower Ln., Colorado Springs, CO 80917 637-1525

PIRATE OR ?

By Rick Brown - KDØSU

I recently had an experience on 10 meters that I have never had in 26 years of Ham Radio. After an enjoyable ragchew with a station on the East coast I heard another station calling me but I didn't pick up a call sign. I came back to the station giving my name and call, and asked him to try again. The person on the other end came back to me and said something like this. "I don't have a call sign. I just bought this radio and installed it in the car. I want to find out what I need to do to get a license."

I was so amazed at this person's audacity that I wasn't quite sure what to do. I first told him that he wasn't even supposed to be transmitting without a license. He said that he knew that, and that he had a CB license which he realized wasn't any good for that radio, but he didn't know how to go about getting the proper license. I immediately told him to contact the ARRL and they could tell him what to do. At that point I signed off the air and sat back to reflect on the situation.

Looking back on it I wondered if I had done the right thing. Should I have ignored the person totally after the admission to not having a license? I don't really think so because he would probably just have continued trying until he got someone to talk to him. Should I have tried to get a name and address from the individual? If I had done that should I have reported him to the FCC, or just written a friendly letter of advice. It seemed the person had

purchased one of the new 10 meter rigs some where and didn't have any idea what he really had. I didn't carry on enough of a conversation to find out where he had gotten the rig or anything like that. In this instance the person seemed sincere that he wanted to get a license. I figure a bootlegger would have at least made up a fictitious call and kept on operating until he got caught.

I am not sure that I did the right thing, but I have the feeling that it will happen again. Maybe not to me, but maybe to one of you. How will you handle it?

Rick KDØSU

DECEMBER CLUB MEETING

The next regularly scheduled meeting of the Pikes Peak Radio Amateur Association will be held at the Hewlett Packard facility at the intersection of Union and Lexington Boulevards. Directions may be obtained from any Board member of the Club. **Please note a new meeting time at 7:00 pm vice 7:30 pm.**

This month, the our guest speaker will from ETO a local industry that produces amplifiers for the amateur and commercial markets. ETO has just created a new facility in the Colorado Springs area to operate in conjunction with their existing plant in Canon City. You may remember that ETO produces the amplifier that you can leave keyed down for infinity (remember the ads that show the brick).

"VIEW FROM THE PEAK"

by George E. Hinds, N8CIX

ICOM IC-3210A DUAL-BAND MOBILE:

Exasperated with difficult-to-program mobile rigs? With frequency, offset, etc., displays that often can't be seen? With trying to decode a series of beeps and burps instead? With muffled screams from the wife while risking your necks in traffic with your head under the dash-board trying to operate some 20+ knobs and switches common to some dual-band rigs? Relax, OM, here's the good news: The ICOM IC-3210A...

ICOM has a sports-car size dual-band that will do the job in the smallest package with the most simple, straight-forward programming sequence and the least number of buttons to be pushed and knobs to be turned.

What it offers: full duplex capability; extended range on VHF receiving [138-174MHz; you can listen to police, fire, weather]; just 11 switches and 3 controls and all easy to find for operation day and night; 20+ memory channels; reverse frequency button to quickly check repeater inputs; priority watch plus call channel; CTCSS encode included; 5W or 25W; and the best, most highly visible LCD display available in dual-banders today (with 4 levels of light for any condition imaginable).

It has an internal duplexer; one antenna does the job. A DTMF keyboard on the microphone is standard. In this users' opinion, while not quite as versatile in "two-band monitoring" as the newest Yaesu and Kenwood, the operating simplicity plus large, easy-to-see in-day-or-night LCD readout makes it far safer and simpler for mobile use. If you can take one out for a test drive, try it -- impressive!

TO CREATE, OR NOT TO CREATE. A "NO-CODE" CLASS LICENSE?

As noted in the "Correspondence" column in the February issue of "QST", seemingly the most

controversial subject in amateur radio -- a no-code license class -- is proving again how much action and reaction, fear, prejudice and logic it can produce among us.

Debate is healthy, if it's based on other than prejudice and fear. We should look beyond the prejudice: "I had to learn code, so everyone has to learn code" (somewhat akin to saying if you were abused as a child, it's only right that your children be abused) and the fear: "CW will keep out the riff-raff" (which it hasn't).

Too often those who insist on mandatory CW skill before entrance to amateur radio want to debate the merits of CW against voice, or packet, or satellite? Really, that's not the point -- no one has suggested taking away CW from those who choose to use it. For them, it can be "CW Forever!"

An important fact not publicized in "QST" to know: an FCC representative at the ARRL National Convention in 1984 said that refusal to adopt a no-code license would force the Commission to consider reassignment of 220MHz to the Land Mobile Service. Amateurs refused. It happened. UPS is in; amateur radio is out. What band is next? Remember, all above 220 is "joint-use" with other users besides amateurs (as it was on 220), and so the big boys with big bucks will be hustling for spectrum space again...

Having been once, like the old Missouri mule, "hit on the side of the head with a 2 X 4 to get his attention" by the FCC and yet refusing to heed, do we ignore the signals and chance getting hit again -- and again? Or is it time we pay attention to the FCC message: had we better try rapid growth of amateur radio through a no-code class of license (nothing else has worked yet) so as to "use it, not lose it?" I think so. "Any man may make a mistake, but none but a fool will continue in it."

As a licensed amateur for over 17 years, and a League member for longer than that, I've written ARRL to let my position be known. I urge that you consider the facts and especially what has just happened with 220, look to the future and then you, too, write the League to make your position known, whatever it may be. One thing is certain: If the ARRL does not act positively on a no-code license above 30 MHz, others will -- it's already begun...

AH! SWEET MEMORIES: IT'S WAS GREAT TO BE OUT ON THE OPEN ROAD...

Recalling a trip not too long ago, I was rolling down the highway at slightly over the legal

speed passing a long line of slow moving traffic. Looking up in the rear view mirror, on my bumper was a truck that looked the size of a locomotive, with a driver glaring down at me with lips curled back, cowboy hat jammed down over the brow, looking for all the world as if the Devil himself had come to call.

From the CB laying on the car floor where I had put it for the trip came a snarled, "you four-wheeler numbskull with those porcupine antennas, get out of the way." Clearly, he hadn't read, "How to Win Friends and Influence People."

Picking up the mic, I said "I can't help you break the speed laws without me also breaking the law." That didn't seem to calm the water.

"You . . . idiot," he screamed, "you're making me late getting to Chitown for dinner with my wife." "Maybe I am," I said, "but maybe I'm also saving you from a very expensive ticket. Or from ending up in an ambulance when you roll that rig into the ditch at 80 miles per."

"You so-and-so, get out of the way!" By this time his scream sounded more like crying. "Now listen," I said as politely as possible under strained circumstances, "the distance we are from Chicago, even if you go 80 you'll only save 10 or 15 minutes - won't your wife wait? And no policeman will have to tell her where the body can be claimed after that rollover."

"You S.O.B." came a pitiful wail over the CB. "It's people like you who cause accidents; PULL OVER!"

I thought for a moment and said, "Well, sir, I can't do that in this traffic, but I'll tell you what I will do - you give me the phone number for your wife and I'll call ahead on my other radio to let her know you'll be 15 minutes late."

Then I turned off the CB - the conversation had steadily been going downhill. When I was able to safely pull over without cutting off someone, I did. Can you believe it? He leaned over and gave me the finger when he roared by - and after I'd offered to help! On the other hand, as I think about it now and remembering TV news reports on freeway shootings, perhaps I'm lucky it didn't happen in Los Angeles?

73, George N8CIX

HOW TO REPAIR AN ELECTRONIC INSTRUMENT OR RADIO

Step 1.

Approach the ailing radio in a confident manner. This will give the radio the mistaken idea that you know something. It will also impress anyone who happens to be looking, and if the equipment should suddenly start working, you will be credited with its repair. If this step fails to work, proceed to Step 2.

Step 2.

Wave the service manual at the radio. This will make it assume that you are at least familiar with the source of knowledge. Should this fail to work, proceed to Step 3.

Step 3.

In a forcible manner, recite Ohm's Law to the radio. (CAUTION: before taking this step, refer to some reliable handbook to be sure of your knowledge of Ohm's Law). This will prove to the radio, beyond a shadow of a doubt, that you know something. This is a drastic step and should be attempted ONLY if the first two fail. If this step fails to work, proceed to Step 4.

Step 4.

Jar the radio slightly. This may require anything from a three to six foot drop, preferably on a concrete floor. However, you must be careful with this step because, while jarring is an approved method of repair, you must not mar the floor. Again, this is a very drastic step. If it fails, proceed to Step 5.

Step 5.

Brandish a large screwdriver in a menacing manner. This will frighten the radio and demonstrate your knowledge of the deadly "short circuit" technique. Proceed to Step 6.

Step 6.

Add a tube, even if the radio is solid state. This will prove that you are familiar with the radio's design. This will confuse the radio and thereby increase your advantage. If this doesn't work, proceed to the most drastic and dangerous step. It is seldom needed and is a final resort when all else fails.

Step 7.

THINK.....

SOURCE : Unknown

Severe Weather Training...

As most of you will already know, the National Oceanic and Atmospheric Administration (NOAA) is proposing to close the Colorado Springs office of the National Weather Service. As of press time, 1/27/89, Herb Moore, manager of the local office, told me that although there are rumors that the office is on a list of offices to start closing as soon as March 1, he has been told by NOAA officials that this office would not be closed before October 1. In any case, so far this is only a proposal which requires congressional approval before it is implemented, so nothing is definite.

Herb said that the Colorado Springs office has survived two such closure attempts in the past as a result of support from local legislators and government officials. The numerous military facilities in the area as well as the heavily used civilian airport depend heavily on the office for surface weather information. Also, the weather radio broadcasts from this office were planned to be one of the major local warning vehicles following the elimination of El Paso county's outdoor sirens. So there is a possibility that sufficient pressure may be applied once again to keep the office operating, and Herb is quite optimistic at this time.

But if the office should close as planned, operations for El Paso and Teller counties will move to the Pueblo office. This means that there will no longer be professional eyes monitoring our immediate area for the tell-tale signs of severe weather conditions leading to the issuance of official warnings. This would make the role of the Amateur Radio weather spotters even more important to the safety of the local community.

During a severe weather net, we are only able to accept reports from properly trained weather spotters due to the critical nature of the information. Every year, Herb conducts training sessions for interested amateurs to enable them to better understand factors which can lead to severe weather and how to recognize their onset. This year two such sessions are planned, both to be held in the Civil Defense room in the basement



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of the Colorado Springs Police Department headquarters on Kiowa Street in downtown Colorado Springs.

The first session will teach some of the basics of weather spotting and give an overall picture of the needs of the weather service. Any amateur who has never been to one of Herb's sessions is encouraged to attend this class on March 12 beginning at 1pm. Please note that since local amateur operations are conducted on 2 meters, a Technician or higher class license is required.

The second session is an advanced class for those who have attended a prior training session. It is assumed that those attending will have a basic knowledge of severe weather reporting so more emphasis will be placed on specific conditions such as flash floods, and Herb has a new video tape which spectacularly illustrates the power of flash floods. This class will be held on April 16 beginning at 1pm.

For further information on these classes and other emergency related amateur radio communications, El Paso and Teller county amateurs are encouraged to check in to the Amateur Radio Emergency Service net conducted weekly on the 146.97/37 repeater at 7pm local time each Wednesday. For specific questions related to severe weather operations, I can be contacted days at 548-2045, evenings and weekends at 260-1318.

**Dave Banks, N510N,
Severe Weather Net Manager.**

CW FOREVER?

by Bob Witta: KB0CY

The issue of a no-code amateur radio license seems to have been resurrected again. Lately, it has been accompanied and justified by concerns of sluggish growth of the amateur population. But let's ignore that issue for the moment, because if all we wanted is growth, we could achieve that by removing all licensing requirements. The real issue is what standards or requirements a person should meet in order to receive an amateur radio license.

First, let me get my position out in the open. I have long been an advocate of the code requirement for all license classes, but have recently changed my opinion. I believe the time has come for a no-code VHF/UHF-only amateur license with a written exam similar to the current Technician level exam. (Please allow me to sidestep the question of exactly which bands/frequencies would be included.) I hold an Extra class license and I DO enjoy working CW (as well as phone, RTTY, packet, etc.) so I claim I DO NOT fall into the category of "never really liked CW" or "never really gave it a chance."

Let's review the FCC's stated purpose of the Amateur Radio Service and see where a Morse code requirement fits in:

1. Public Service (especially emergency communications) Public service tends to fall into two major categories: HF traffic handling (either routine or emergency) and VHF activities including providing local public service communications (e.g. walkathons) and packet traffic handling. CW communications is still important in HF traffic handling, but is not a significant part of VHF public service. Looking at it a different way, the CW requirement is actually hindering our ability to attract competent people into the amateur ranks so that they can be a part of the VHF public service effort.

2. Advancement of the radio art. Where has the radio art been advanced recently? I would suggest that the most significant amateur advancement in recent years has been packet radio. It is a good example of radio amateur ingenuity applied to a practical system. The level of electronic mail and message forwarding that ex-

ists today was unimaginable to most of us just a few years ago. Not only does Morse code NOT fit into this area, it pales in comparison. (Would you want your messages forwarded on VHF via CW or via AX.25 with complete error checking?) Again, I submit that the Morse code requirement gets in the way of attracting people with the computer or electronics expertise to advance the radio art.

3. Expansion of the reservoir of trained operators, technicians and electronics experts. CW is still a viable (and FUN) mode on the HF bands (and the VHF/UHF bands under weak signal conditions). Therefore, it is desirable to develop "trained operators" who have skills which include receiving Morse code. On the other hand, CW is not that common on VHF/UHF, so it makes sense not to have the code requirement there. As far as expanding the reservoir of "technicians and electronics experts", Morse code does not apply and, again, is a detriment to attracting quality people to the amateur community. (I know of no major electronics company actively looking for technicians or engineers that have a knowledge of Morse code.)

4. Enhancement of international goodwill. Perhaps Morse code has a role here as the "universal language." I won't argue that point, but I will point out that international communication is primarily on the high frequency bands.

A no-code VHF/UHF license does a better job of meeting the stated FCC purpose for the Amateur Radio Service than the current license classes. It removes an artificial and unnecessary barrier for the person interested mostly in VHF/UHF operation. We are currently excluding qualified people who could be electronics experts, involved in public service and advancement of the radio art. On the other hand, the Morse code requirement is still quite valid for the HF bands. It is a fun and useful mode which will not die in the near future, but it should not be a fundamental requirement for entering the world of amateur radio.

The world is changing at a fast pace, especially the technical world. Amateur Radio must change with it or be left behind as a quaint obsolete hobby. Think about what ham radio will be far into the future. Consider the year 2100 with whatever advanced communications techniques that will be possible by that time. Do you really think a code requirement will be appropriate then? I don't think so.

Bob KB0CY

A VISIT TO VIRGINIA

by KD0SO

In the month of December, I had occasion, to make a business trip to the city of Springfield Virginia. While there I was amazed at the wonderful hospitality. The hams there are to be commended for their super systems and some great scenery too.

I also visited the "EGE" store in Woodbridge. Yep, your right I bought something I couldn't live without. (Got a good deal too.) Thanks John.

I guess the most amazing thing was that, I discovered some locals with zero calls, who where from this area. Seems they get to see our "Zero Beat." Isn't it nice to be popular.

From Colorado Springs, and for the hams here. I hope we show the same consideration, I received. To the Woodbridge Wireless club, thanks for a wonderful super and the fellowship, of a truly great group. My very best of 73's.

Paul KD0SO Colo. Spgs. Ca.

AMATEUR RADIO LICENSE EXAMINATIONS

WHEN: Sat, 18 Feb 89 at 9:00 AM
WHERE: First United Methodist Church
420 North Nevada Avenue
Colorado Springs, CO
WALKINS: Allowed
TALK-IN: 146.37/97

NEEDS:

1. Original FCC license, if any
2. A copy of your FCC license, if any
3. Two forms of positive identification (driver's license, birth certificate, passport or library card)
4. \$4.55 check or M.O. payable to ARRL/VEC
5. Completed FCC form 610
6. If physically handicapped, a physicians certificate describing the nature of the disability. Arrangements should be made prior to testing.

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For more information contact:
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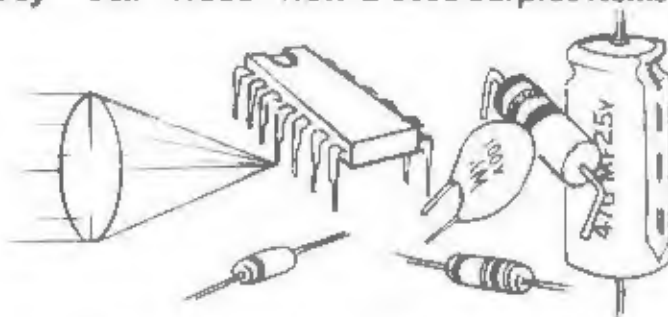
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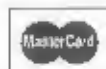
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QRP-40 Transmitter Kit

The QRP-40 is a 1 watt 40 meter transmitter kit made by Ramsey Electronics. It is a matching unit for their HR-4 receiver kit (see Dec 1988 Zero Beat for review). The kit sells for \$24.95. It consists of a printed circuit board and all needed components except cabinet and power supply.

The parts are good quality, but one of the four transistors was not marked and had to be identified by the process of elimination. Two of the diodes are very similar in appearance and during assembly were initially installed in the wrong locations. The printed circuit board was not as well made as that of the receiver kit. One trace was broken and had to be repaired by a wire bridge. An electrolytic capacitor exploded on first powering up the transmitter. (It was installed correctly - Honest!) The transmitter kit is more difficult than the HR-4 receiver kit and I would not recommend it to an inexperienced builder. A Heathkit it ain't.

For a simple transmitter it has a few nice features. One transistor is used in a keying circuit. One is used as an oscillator. The remaining two are buffer and final amplifier. The kit included one crystal for 7050 khz. There is a switch and position for another crystal of the builders choice. There are two varactor diodes which are used to vary the transmitter frequency by 8 to 10 khz. There is a separate diode switched antenna jack for a receiver. The switching circuit allows full break-in operation.

The transmitter operates from 12 to 14 volts and draws about 400ma on key down. The final transistor gets noticeably hot and I plan to add a small heat sink in the near future. The transmitter puts out a nice clean signal with no chirps and no obvious drift. Three contacts were made with the transmitter shortly after getting it completely assembled and repaired. The qso's were with stations in Fort Worth Texas, Shreveport, La., and Santa Barbara, Ca. I used my Yaesu 757 as the receiver. The Louisiana station was also operating qrp with 3 watts and a Heathkit HW8 transceiver. Later attempts were made to use the transmitter in conjunction with the HR-4 receiver. There are some minor problems with that set up however. The antenna output to the HR-4 overloads the receiver on transmit making it almost impossible to zero beat the transmit frequency. The tuning on the receiver is too critical and the bandspread needs further improvement. I am sure that these minor problems are easily solvable. I purchased a small plastic box from Radio shack and plan to install the HR-4 receiver and Qrp-40 transmitter in it as soon as the front

end overload and bandspread problems are figured out.

Despite the problems with parts identification and slightly lower quality pc board, I think the Qrp-40 is well worth the \$24.95. It has been lots of fun to build, trouble shoot, and operate. And it is sure neat to work someone hundreds of miles away with only one watt, but takes a lot of patience and a little luck.

73's, Jim WA9ABB

PRODUCT REVIEW

Radio Shack Weatherradio/Timecube
Cat No. 12-148

Tandy recently married their crystal-controlled VHF weatheradio (162.55 Mhz) with an upgraded version of their Timecube WWV receiver (5, 10, & 15 Mhz). Both receivers are neatly housed in a small case whose "footprint" will fit practically anywhere in the shack. A telescopic whip antenna extends to over 32 inches. I found that the WWV frequencies are received much better if the receiver is located on some sort of metallic groundplane. Each of the WWV frequencies is crystal controlled, making it unnecessary to tune. A simple 3-way bandswitch selects 5, 10, and 15 Mhz as desired for your location and available propagation. Tandy claims 0.5uV sensitivity, and you will find that both WWV and WWVH can be received simultaneously during the wee hours. Command keys on the top panel simply select WEATHER, TIME, or OFF. I like the fact the unit is battery operated, making it totally portable, fitting in a coat pocket, glove compartment, etc. A well designed time zone converter on the top panel eliminates the confusion arising with changes between STANDARD and DAYLIGHT time. This little gem isn't really "high tech," but it does free the shack receiver for its main purpose. At \$39.95, it is value to the ham station.

Oak KØROL

SILENT KEY

We are saddened by the passing of Brad Bradley KDØVM of Colorado Springs. Brad died January 21, 1989 at the age of 40, 2 days after recovering from open heart surgery at Penrose Hospital.

Brad leaves behind his xyl Linda, a son Marcus (10) and a daughter Cheryl (6). Brad was very active in the microwave frequencies both as a hobby and a professional engineer at Texas Instruments. Brad was active this summer with Lauren KXØO attempting the 3.4 ghz distance record and he presented two talks at PPRAA meetings regarding lightning protection. Brad was also active in field day activities. Those of us who knew Brad will miss him. 73's Brad de all.

Nick KGSN

DITS & BITS

NEWS FLASH

WB0BLV Packet Bulletin Board System has now changed calls and location. It is now operating with the call **KABWIE** with Fred being the new SYSOP.

FOR SALE

Kenwood TS-830 80-10 meter Transceiver with VFO-120 external VFO & MC-50 desktop mic.

Heath HW-100 80-10 meter Transceiver with HP-23A power supply.

AEA 2M Isopole Antenna

KLM 2M-14C Oscar Antenna

CALL **E.J. Lund KD9ND** @ 594-9976

FOR SALE

Kenwood TR 2400 HT c/w leather case, extra battery pack, base stand/charger and regular charger (package deal - negotiable)

Kenwood TR 7600 2 meter synthesized mobile transceiver with detachable Touch Tone Pad (negotiable)

CALL **Jim KC6EL** @ 598-8549

FOR SALE

Heathkit HD-4040 Packet TNC with HDA-4040-1 Status Monitor. The WA8DED firmware is installed, but I will include the original Heath firmware. \$75.00

Yaesu FT-7 80-10 meter SSB/CW rig. Runs 25 watts on all bands. Great little rig for mobile or portable work. I have worked Japan, Australia and Europe with it from the car. \$250.00

CALL **Rick KD8SU** @ 532-9423 (evenings & weekends)

SEALED BID

Sell brand new Uniden HR-2510 10 meter all mode transceiver (still in carton). Bids must be in writing. Will open all bids on Valentine's Day, 14 Feb 89. Send bids to **Oak Stockton K6ROL**, 1223 E. San Miguel #4, COS, CO 80909.

FOR SALE

Audio Filter, MFJ-721, \$30.00

Tuner/Power Meter/SWR, MFJ-949C, \$100.00

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CALL **Harvey, W1JU** @ 599-7070

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MINUTES OF JAN GENERAL MEETING

submitted by Al N4CMM, secretary

The general meeting of the Pikes Peak Radio Amateur Association was held at the Hewlett-Packard Briarcliff Facility, Wednesday evening 11 Jan 1988. The meeting was called to order by the president Keith NYOT at 19:30, and followed by the introduction of members and guests.

The minutes of the previous General Meeting and Board meeting were approved as printed in *QBeat*.

Committee Reports

Note: Anyone wishing to help out on any of these committees, please contact the chairman at the phone number listed. Thank you for your support.

Treasurer - Ron NKOP (593-8352)

Previous balance was \$1478.30, income of \$0378.89, expenses of \$0679.59, leaving a balance \$1174.60.

Interference - Ron NKOP (593-8352)

Nothing to report this time.

Education - Dave N4DJS (531-0633)

The next set of Novice classes will be in the spring. No exact start has been set as of yet.

Publicity - Karen N1FED (495-0091)

A flyer promoting the swapfest and giving general information about the Club is now being formulated. You should expect to see something soon.

Colorado Council of Amateur Radio

Clubs (CCARC) - Oak K0ROL (591-1426)

Nothing new to report.

Deaf and Blind School - Jim WA9ABB (598-7543)

Not much new to report. He does have one student who has passed the code test and is now working on the theory.

QBeat - Keith NYOT (637-1525)

The distribution of *QBeats* is now up to 400 copies a month. Keith also thanked Ron NKOP for getting the Jan *QBeat* published while NYOT was on vacation in Canada. An excellent job, thanks Ron!!

ARES - Mallory N0IKF (591-0049)

There is an ARES PBBS on 145.03 running under the call of KB0CVW. It is operation from 1800 to 2100 daily.

Public Service - Mike K0TER (636-1290)
Nothing to report.

VE Testing - Max K0DEL (488-9289)

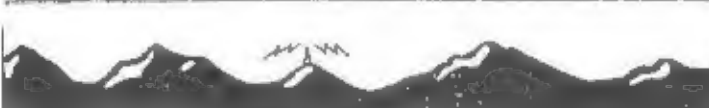
The next VE testing is scheduled for 18 Feb 89 at the 1st Methodist church at St. Vrain and Nevada. Cost is now \$4.75. Max also stated that the church is now charging for the PPRAA to hold their examination sessions there. He is investigating other places to have the VE testing.

Old Business

Nothing in Old Business.

New Business

Dave N0ION (260-1318) reported that weather classes will be held on 12 March 89 from 1 to 4pm for anyone who has never previously attended a weather class. On 16 April from 1 to 3pm, an advanced class will be held who attended the class on 12 March and those who have attended other weather classes in the past. It will be held in the basement of the downtown police station in the civil defence training room.



COLORADO COMM CENTER



KANTRONICS

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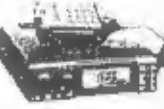




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1 MILE NORTH OF MERCHANDISE MART

The next board meeting will be held at the QTH of Al N8CMW.

Rick WB7THT reported that the Swapfest will be held on 20 May 89 at the Rustic Hills Mall (the same place as for the last two years). The grand prize will be an ICOM 735 HF rig. Contact Al N8CMW for TABLES. Price for tables will be \$8.00 pre-registered and \$10.00 at the door if we have any left.

Prizes - Rick WB7THT.

All prizes were mystery prizes.

Winners were:

N8CYR - Jake-Speaker

N3EUA - BDale-Breakfast Village Inn.

KE9LZ - Ron-Maps

N9HRD - Operating Manual

W8JTD - Fred-Disk Wallet

Program:

The January meeting of the PPRAA is mainly dedicated to Home-brew night. This year there were five contestants - they were:

Keith-NY8T Touch Tone Pad

Ron-NK8P Field Strength Meter 2/6 meters

Harvey-W1JU Memory Keyer

Steve-KB7WY-Ionic Keyer

Bill-N9ZL-DC to AC converter

The winners this year were:

1st Place-Bill-N9ZL-\$30.00

2nd Place-Harvey-W1JU-\$20.00

3rd Place-Ron-NK8P-\$10.00

In addition, the Club was honored to have Hal W6MXY, Lauren KX8O, and Warren W6YNE give a talk on the El Paso County tower ordinance issue and what their group has been doing to represent the amateurs in this area. The next planning commission will be held on 21 Feb at Centennial Hall.

The meeting was adjourned at 2130

The next meeting will be 08 Feb 89.

Minutes of the JAN Board Meeting

submitted by Al N8CMW

The January Board meeting of the PPRAA was held at the QTH of Al N8CMW on 16 Jan 89. In attendance was Doug N8HJT, Rick WB7THT, Al N8CMW, BDale N3EUA, Karen N1FED, Keith NY8T, and Ron NK8P.

The board discussed actions that will be taken in the event that an advertiser does not pay up

for ads in O Beat. If delinquent, then the advertiser will be expected to pay for the current and following month's ads.

In order that we will not be in a hurry to wrap up our meetings at the HP Briargate facility, the Club will now start their monthly meetings at 7:00 pm vice 7:30 as we have done in the past.

The secretary was asked to send a letter to the Badge Man requesting his participation at the Club Swapfest in May.

Doug N8HJT will look into getting a representative from ETO as the guest speaker for the Feb meeting of the PPRAA.

A call will be made at the next Club meeting for volunteers to organize Field Day.

Next Board meeting will be at the QTH of Keith NY8T.

Phil Somers, VE1ARC, the previous O-Beat Editor, will be in town and at the Saturday morning breakfast on 4 Feb 89.

The climbing belts that have been recently purchased by the Club will be loaned out to Club members with the provision that they sign a waiver releasing the Club of any liability. A \$50.00 deposit will be required (which does not cover the cost of the belt) and it will be repaid upon return of the belts in good condition.

Calbooks will be brought to the Club meeting by the secretary so that you can look your calls.

The Feb edition of the O-Beat will be your last if you have not renewed your Club membership dues.

There being no further business, the meeting was adjourned at 2100hrs.

AFA RADIO CLUB MEETING

The AFA Radio Club meeting was held 10 Jan 1989 at 1130 hrs at the rec center lunch area. Present were Floyd KB5FCN, Doug N8HJT, Al N8CMW, Jim WA9ABB and Ron NK8P. The Networking conference for Oct was confirmed and preparations will commence. Treasurer reported that the Club still has \$42.00. There will be a Volksmarch in May and Doug will get a hold of Mike K8TER of the PPRAA to work with them on this. There being no further business, the meeting was adjourned at 1230. The next meeting will be Tuesday at 11:30 at the rec Center on Feb 7th. Submitted by Al N8CMW.

MILEY'S RADIO

Jess KØTAA 719 W. 7th St. Florence, Colorado 81226 (719) 764-3040

Hours 9 to 6 Tuesday through Friday — Saturdays 9 to 1 — Evening Hours 7:30 to 10 Tues., Wed., Thurs. (Call Ahead)

Closed Saturday 1 PM, Sunday & Monday

Closed except by pre-arranged phone appointment Jan. 14 — Jan. 30

If you come without calling first, we may be gone —

ALL NEW RIGS IN STOCK!

Hamfest Schedule:

2/5/89	Littlefield, TX
2/24, 25, 26	Kearney, NE
3/17, 18, 19	Midland, TX
4/8, 9	Mooreland, OK
4/28, 29, 30	Bean Feed, Las Cruces, NM
5/6, 7	Sierra Vista, AZ
5/20	Colorado Springs, CO
6/3, 4	Loveland, CO

Used Rigs:

Kenwood TS 180S \$425.
Kenwood TV 502 2 meter transverter for TS 520 and 820 \$125.
Kenwood VFO 820 \$125.
Kenwood AT 230 tuner \$150.
Kenwood TS 520S 80-10 meter excellent shape \$425.
Yaesu FV 901DM Scanning VFO w/Memory for 901/101ZD \$150.
Yaesu FT901DM with FM - non WARC \$475.
Yaesu SP901P Speaker/Patch \$50.
Yaesu FT101ZD non WARC \$475.
Yaesu FT101ZD with FM and WARC \$525.
Johnson kilowatt Matchbox with coupler and bridge \$150.
Uniden HR2510 - modified \$200.
Kenwood TM2550 \$370.
Kenwood TH21AT \$125.
Kenwood TH41AT with tone/HD battery and charger \$150.
Kenwood 7950 \$325.
Icom 02AT - modified and nice \$225.
Yaesu FT720B 70 cm all mode \$325.
Yaesu FT620B 6 meter SSB \$295.
Lots more used and consignment equipment.

73's — Jess

2/89

Membership Application

PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.

P.O. Box 16521

Colorado Springs, CO 80935

Date _____

Name _____

Address _____

City _____ State _____ Zip _____

Call _____ License Class _____

Are You An ARRL Member? ☐ Yes ☐ No Telephone _____

☐ Full Member \$12.00 ☐ Family Membership \$15.00 ☐ Newsletter Only \$6.00

☐ Age 65 or older, or under 18 \$8.00

Additional Names _____ Call _____ Class _____

Associate Member \$8.00 ☐ (Outside Teller & El Paso Counties.)

PPRAA is not associated with the Pikes Peak FM Association.